

**ABSTRACT**

Described is an *in vitro* method for developing dendritic Langerhans type cells, for use in immunotherapy against cancer or infectious diseases and enhancement of graft survival in mammals. The method includes the steps of: culturing cells selected from peripheral blood monocytes and bone marrow cells in a medium containing platelets obtained from the same species or phylogenetically close species; and incubating the culture at 30 to 40°C for a period sufficient to enable formation of mature dendritic Langerhans type cells.